YOR920030168US1
Gustavson et al
SCK

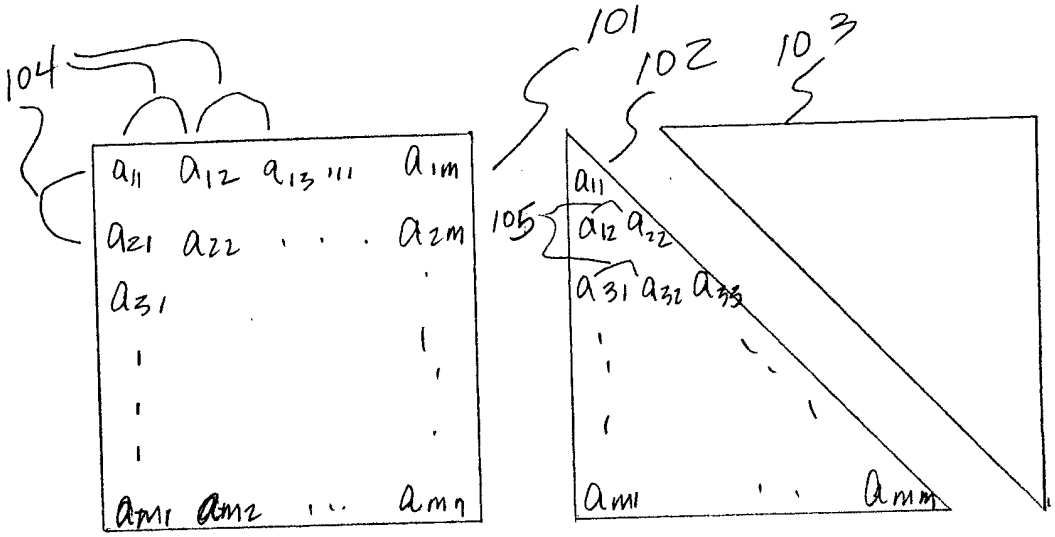

FIGURE 1

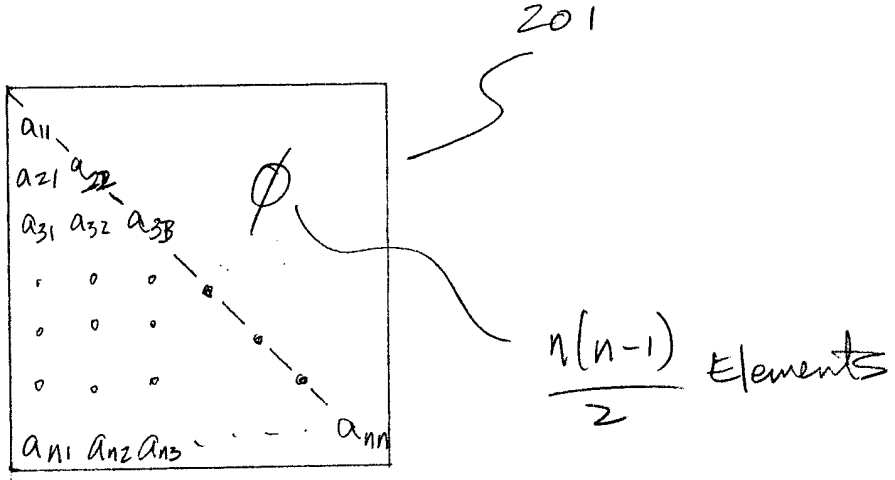

FIGURE 2

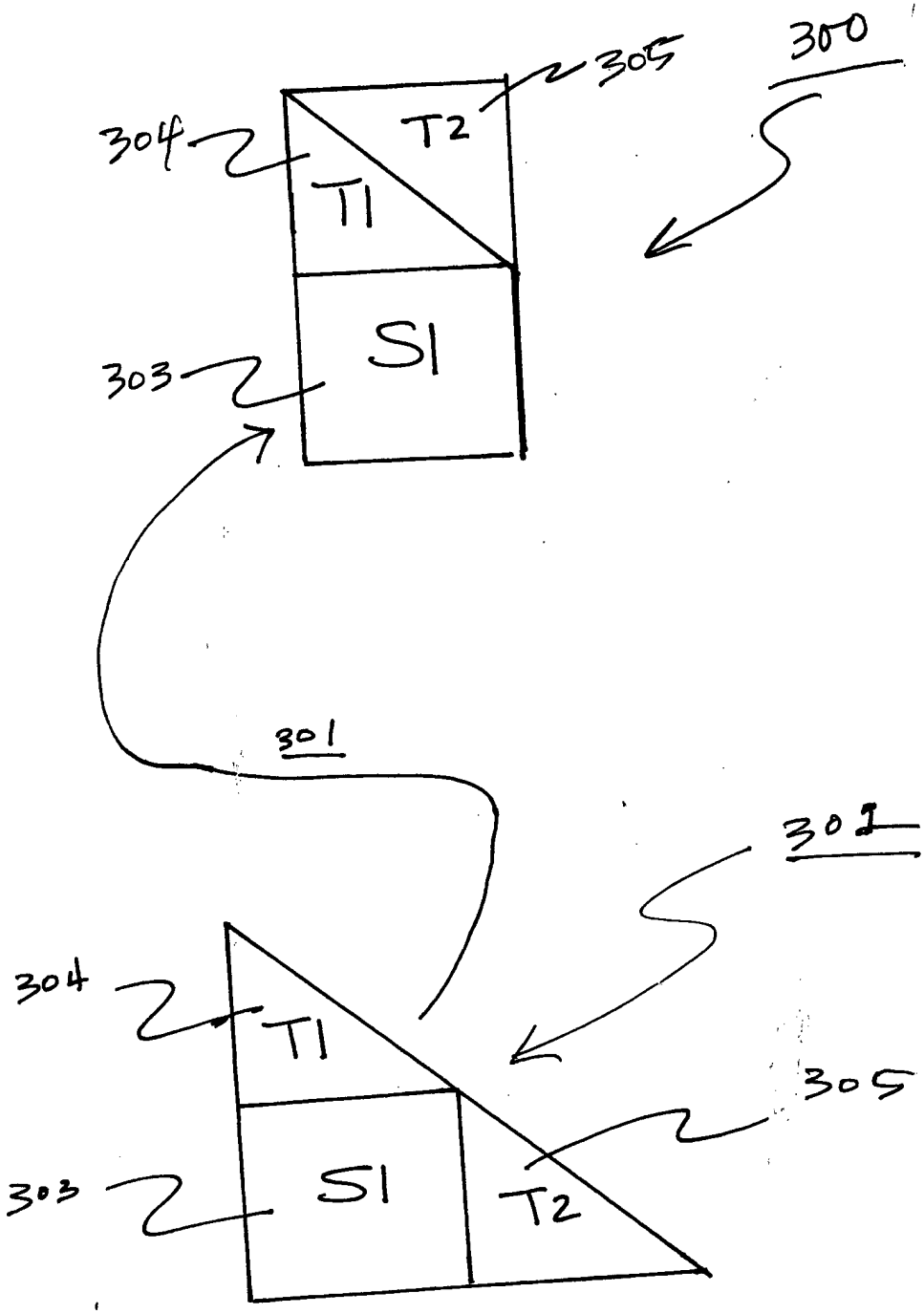

FIGURE 3

400

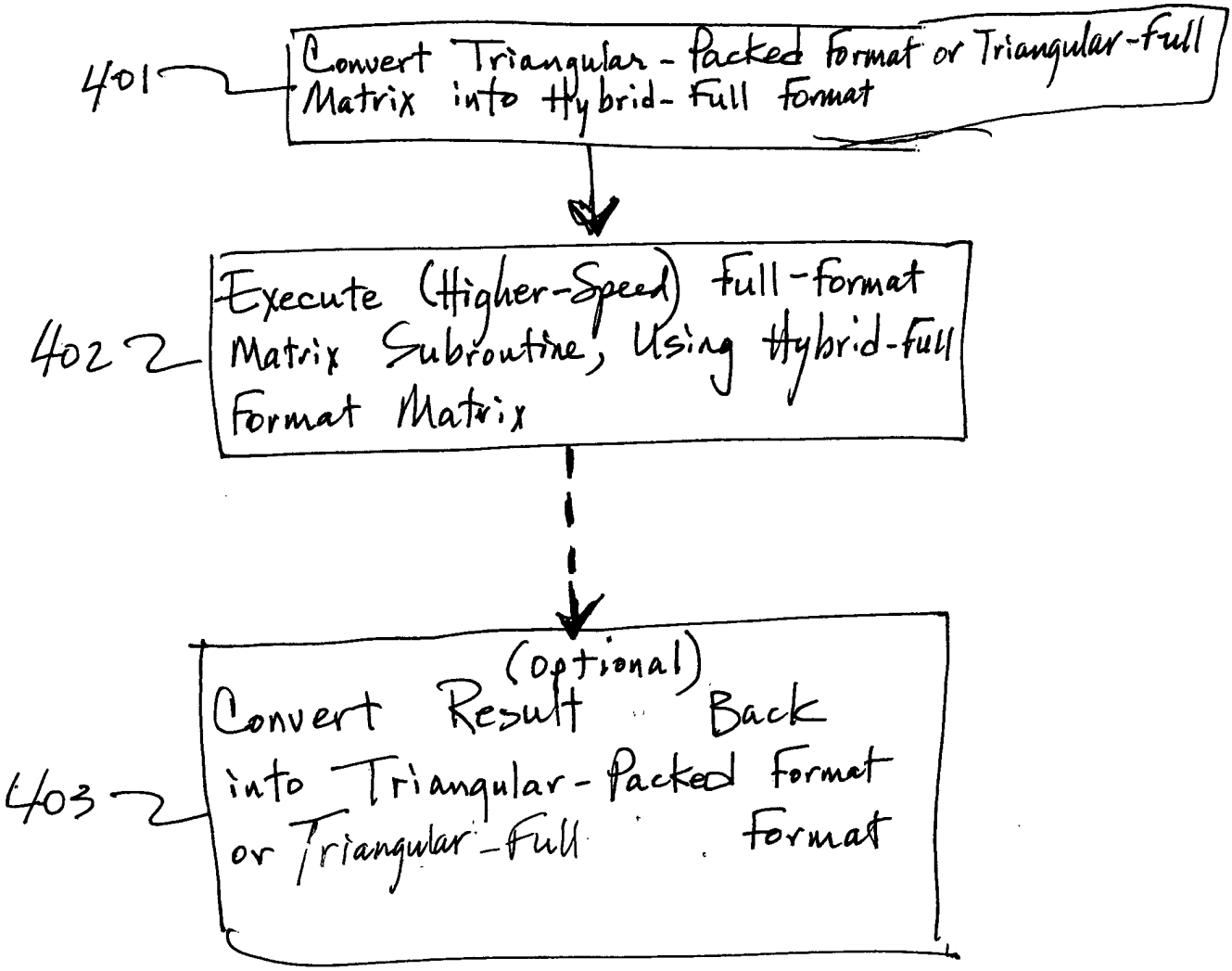
401
Convert Triangular-Packed Format or Triangular-Full Matrix into Hybrid-Full Format
402
Execute (Higher-Speed) Full-Format Matrix Subroutine, Using Hybrid-Full Format Matrix
403
(optional)
Convert Result Back into Triangular-Packed Format or Triangular-Full Format

FIGURE 4

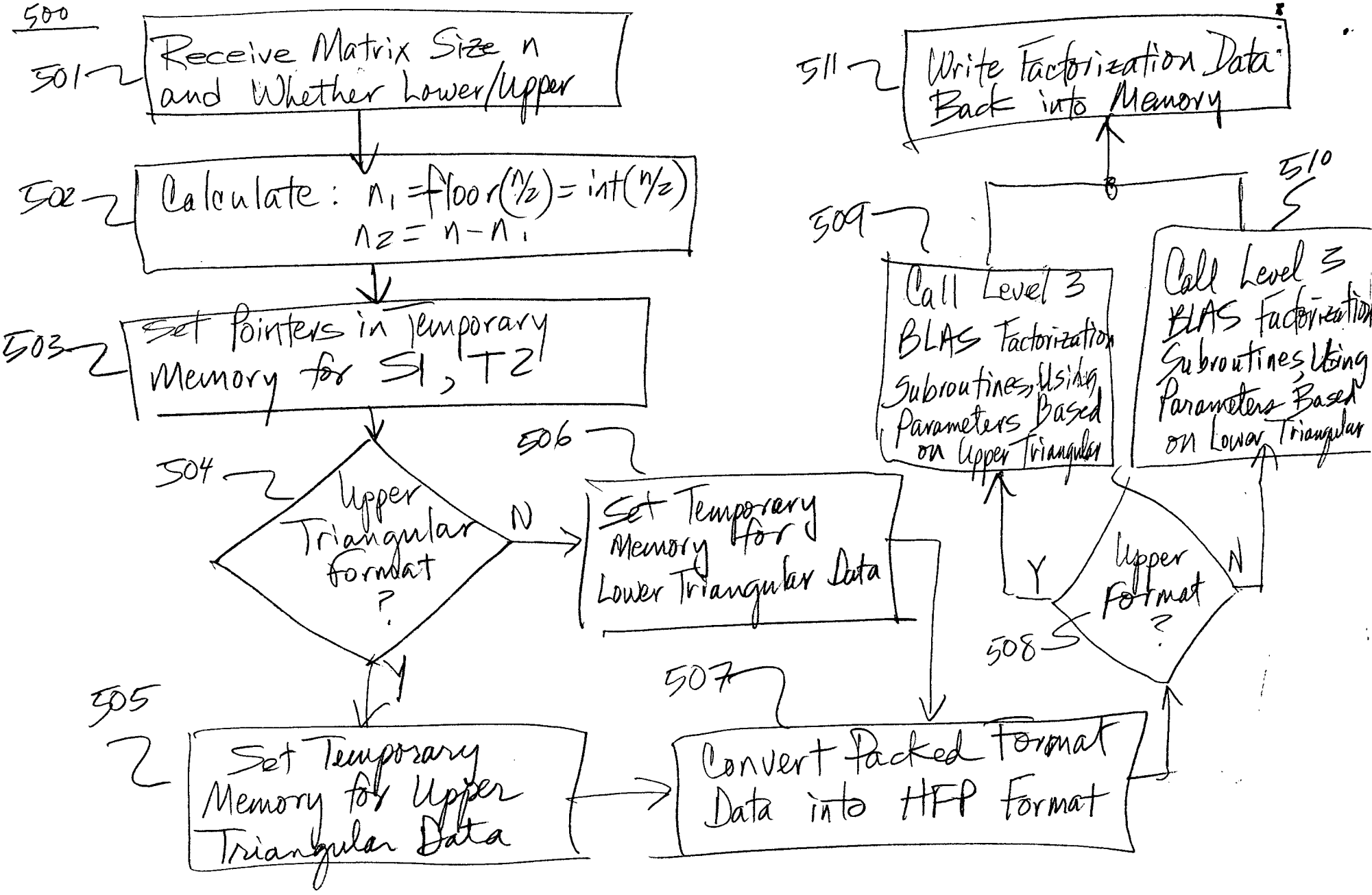
500
501
Receive Matrix Size n and Whether Lower/Upper
502
Calculate: n1 = floor(n/2) = int(n/2)
n2 = n - n1
503
Set Pointers in Temporary Memory for S1, T2
504
Upper Triangular format ?
N
Y
505
Set Temporary Memory for Upper Triangular Data
506
Set Temporary Memory for Lower Triangular Data
507
Convert Packed Format Data into HFP Format
508
Upper format ?
Y
N
509
Call Level 3 BLAS Factorization Subroutines, Using Parameters Based on Upper Triangular
510
Call Level 3 BLAS factorization Subroutines, Using Parameters Based on Lower Triangular
511
Write Factorization Data Back into Memory

FIGURE 5

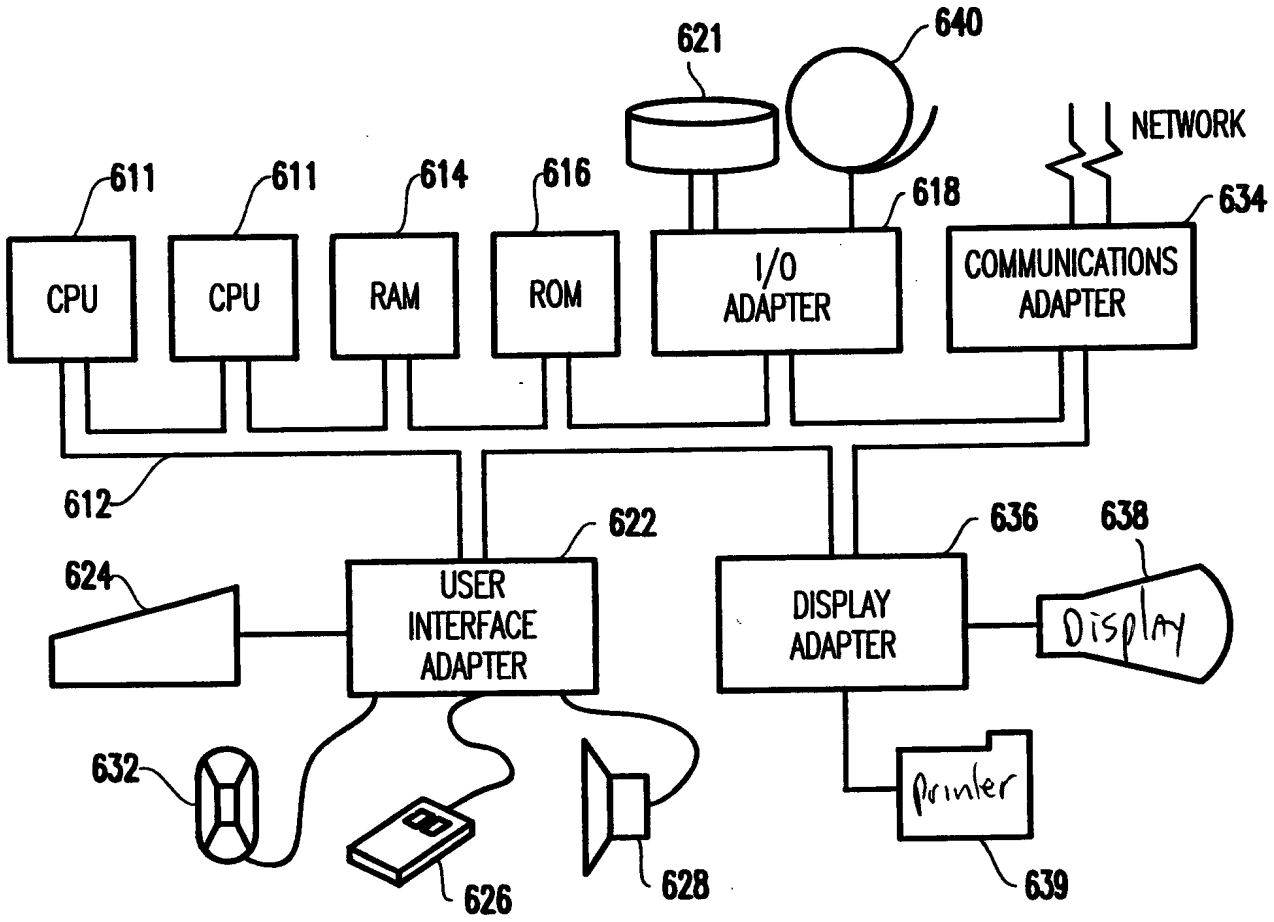
621
640
NETWORK
611
611
614
616
618
634
CPU
CPU
RAM
ROM
I/O ADAPTER
COMMUNICATIONS ADAPTER
612
622
636
638
624
USER INTERFACE ADAPTER
DISPLAY ADAPTER
Display
632
Printer
626
628
639

FIG.6

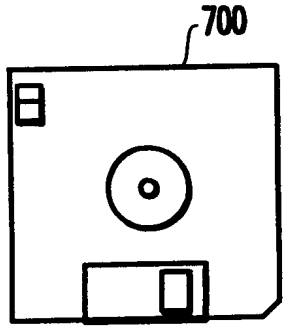
700

FIG. 7